ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/03 Date Received: 03/27/03

Project: Metro Self Monitor Grab, PO# M69711, F&BI 303255

Date Extracted: 04/02/03 Date Analyzed: 04/02/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Chromiu	m <u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M69711	0.17	0.15	0.17	< 0.05
303255-01				
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 303196-01 (Duplicate)

		a galbaig		Relative	
	Reporting	Sample	Duplica	ite Percent	Acceptance
Analyte	Units	Result	Resul	t Difference	Criteria
Chromium	mg/L (ppm)	0.74	0.76	3	0-20
Copper	mg/L (ppm)	0.57	0.57	0	0-20
Nickel	mg/L (ppm)	0.46	0.47	2	0-20
Zinc	mg/L (ppm)	0.07	< 0.05	nm	0-20

Laboratory Code: 303196-01 (Matrix Spike)

papa antiki bida bida bilinga	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.74	90	80-120
Copper	mg/L (ppm)	2	0.57	95	80-120
Nickel	mg/L (ppm)	4	0.46	87	80-120
Zinc	mg/L (ppm)	2	0.07	85	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recovery	% Recovery	Acceptanc	e RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	93	91	80-120	2
Copper	mg/L (ppm)	2	94	92	80-120	2
Nickel	mg/L (ppm)	4	92	92	80-120	0
Zinc	mg/L (ppm)	2	96	93	80-120	3

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 3, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 27, 2003 from the Metro Self Monitor Grab, PO# M69711, F&BI 303255 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlens Morrow

Charlene Morrow

Chemist

Enclosures ACU0403R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 3, 2003

DUPLICATE COPY

INVOICE # 03ACU0403-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor Grab, PO# M69711, F&BI 303255 - Results of testing requested by Gerry Thompson for material submitted on March 27, 2003.

FEDERAL TAX ID #(b) (6)

303255 s	AMPLE CHAIN OF CUSTODY	cm o	3/2703 ALL
Send Report To Gr. Thompson Company ALASKAN Coppin works Address 628 S. Hazand 50	PROJECT NAME/NO. METRO SECR Mondan	PO# M69711	Page # of TURNAROUND TIME Standard (2 Weeks) RUSH Rush charges authorized by:
City, State, ZIP SEARCE US 98174 Phone # 26-7828779 Fax # 206-382-4708	REMARKS		SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

						ANALYSES REQUESTED													
Sample ID	Lab ID	Date	Time	Sample	Туре	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Che will						Notes
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